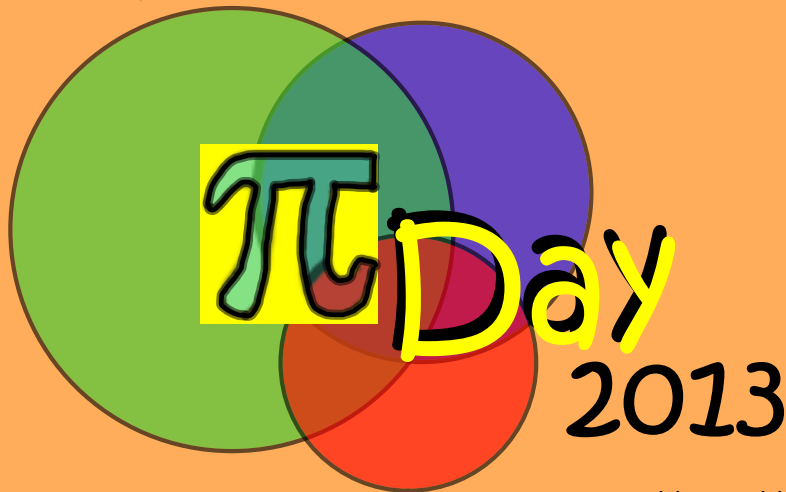


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7 Activities for



Nancy Norem Powell


<http://smartboardsmarty.wikispaces.com/>

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#1 How much do you know about Pi?

Click on the  to reveal the answer

What famous person was born on Pi Day?



What State in the United States tried to pass a law to legislate the value of pi?



What was the Chinese estimate of pi?



What Englishman introduced the π symbol for pi and in what year?

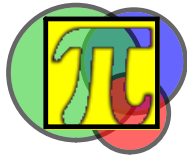


The Rhind Papyrus (1650 B.C.) indicates that Egyptians used a formula to calculate the area of a circle. What approx. of pi was used?



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#2 Where is your Birthday in Pi?

Visit this website & find out!

Where is your Birthday in Pi?

Enter your "birthday" (e.g., 22069)

This document will tell you where in Pi your birthday first occurs.

E.G., If you were born Feb 20th 1969 search for:

22069

Note: No spaces... (you can also search for 2201969, but, that is less likely...)

For those that dont remember, PI is the big(*) number that begins with three.

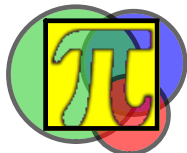
Thanks to [Arthur Bebak](mailto:arthur@msm.com) (arthur@msm.com) for the idea...

* It has been brought to my attention that PI is not really all that "big", per se -- 4 being given as an example of a number bigger than PI. I could argue that PI is bigger than an infinite number of numbers (-5 for example) but, in truth, that is kinda wimpy and misleading. It turns out that when I was thinking "big" I was thinking of all the space that was used when writing PI down. The stack of papers required to write down PI is much bigger than the stack to write down 1 million. All that said doesn't take away the fact that there was actual confusion regarding the statement of PI being a big number -- therefore, you should ignore that I called PI the big number that begins with three and instead consider PI to be the really long number that begins with three.

<http://www.facade.com/legacy/amiinpi/>

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#3 Play π

Get your **STRATEGY** on!

Challenge one, two, or three people, a playing mat, and a container of circles.

Each of you will take a turn taking a circle from the container and laying a circle on the playing mat so that it



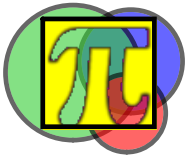
- 1) lies entirely on the playing board, and
- 2) does not overlap any other circle previously played.

You cannot move any circles that have already been played.

The winner is the last one to lay down a circle according to the above instructions.

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#4 Reac

Two great reads for Pi Day

by Cindy Neuschwander and Wayne Geehan



- Sir Cumference and the Knights of the Round Table , a story about the introduction of the circle vocabulary (Circumference, diameter, radius, etc.)
- “Sir Cumference and the Dragon of Pi”, a story about the discovery of the value of Pi.

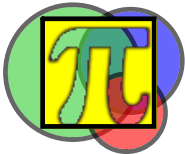
Activity #5 Find Pi

1. Grab a circular object.
2. Measure the circumfere of various circular shaped objects
3. Find the value of the circumference divided by the diameter.



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#6 Strin



Create a s
of pi on a
represent
color. Fill
digit and



When you've had your string checked, put your beads in the empty can and pipe cleaner back in the container.


8	
9	

3.14159265358979323846264338327950288419716939937510582097494459230781640628620899862803482534211706798214808651328230664709384

After you find all the words, you can fill in the unused letters into the blanks on the next page to reveal a hidden message about pi. I would recommend highlighting each letter. If you circle the letters, then it gets difficult to tell whether or not the letters are circled.

A History of Pi	Archimedes	Circle Squarers
Circumference	David Blatner	Diameter
Dr. Kanada	Euclid	Euler
Hiroyuki Goto	Indiana Pi Law	Irrational
Mathematics	Near a Raven	Petr Beckmann
Pi Day	Ptolemy	Radius
The Joy of Pi	Transcendental	WPDPI

3 14159265358979323846264338327950288419716939937510582097494459230781640628620899862803482534211706798214808651328230664709384

[illegible]


4

3.14159265358979323846264338327950288419716939937510582097494459230781640628620899862803482534211706798214808651328230664709384



Resources



 <http://www.superteacherworksheets.com/songs/pi-song.pdf>

 <http://www.piday.org/million/>

 <http://www.facade.com/legacy/amiinpi/>

 http://www.exploratorium.edu/pi/history_of_pi/index.html

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Teacher Notes

On Pi Day, my students had access to many different activities each year. My room (high school) was set up in "centers" or "stations" for each activity. Each student had a booklet called "passport to pi day" that they recorded their answers in. It included the directions for each activity. Many of the stations also had directions taped to the tables. On <http://smartboardsmarty.wikispaces.com/> you will find the passport booklet to go with this lesson in both Word and .pdf format!

<http://smartboardsmarty.wikispaces.com/>

3.14159265358979323846264338327950288419716939937510582097494459230781640628620899862803482534211706798214808651328230664709384